

DOCKET NO.: MSFT-2820/306478.1

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Ernest S. Cohen

Application No.: 10/723,823

Filing Date: November 26, 2003

For: LAZY FLUSHING OF TRANSLATION LOOKASIDE BUFFERS

Confirmation No.:

Group Art Unit: Not Yet Assigned

Examiner: Not Yet Assigned

DATE OF DEPOSIT: 3-8-04

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID, ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE UNITED STATES PATENT AND TRADEMARK OFFICE, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450.

TYPED NAME: Peter M. Ullman
REGISTRATION NO.: 43,963

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

- ☒ In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in § 1.491, before the mailing date

of a first Office Action on the merits of the above-identified application, or before the mailing date of a first Office Action after the filing of request for continued examination under § 1.114, no additional fee is required.

☐ In accordance with § 1.129(a), this Information Disclosure Statement is being filed in connection with ☐ the first or ☐ second After Final Submission, therefore:

☐ Certification in Accordance with § 1.97(e) is attached; or

☐ The fee of \$180.00 as set forth in § 1.17(p) is attached.

☐ In accordance with § 1.97(c), this Information Disclosure Statement is being filed after the period set forth in § 1.97(b) above but before the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311, or before an action that otherwise closes prosecution in the application, therefore:

☐ Certification in Accordance with § 1.97(e) is attached;
or

☐ The fee of \$180.00 as set forth in § 1.17(p) is attached.

☐ In accordance with § 1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with § 1.97(e); and the submission fee of \$180.00 as set forth in § 1.17(p).

- ☐ Copies of each of the references listed on the attached Form PTO-1449 are enclosed herewith.
- ☒ Copies of references listed on the attached Form PTO-1449 are enclosed herewith
- ☒ Copies of references listed on the attached Form PTO 1449 are not required to be submitted pursuant to the June 30, 2003 recent revisions to 37 CFR § 1.98(a)(2)(i).


EXCEPT THAT:

- ☐ In view of the voluminous nature of references [list as appropriate], and the likelihood that these references are available to the Examiner, copies are not enclosed herewith.
- ☐ In accordance with § 1.98(d), copies of the following references listed on the attached Form PTO-1449 are not enclosed herewith because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application(s) for which a claim for priority under 35 U.S.C. § 120 have been made in the instant application:
- ☐ Copies of references [list as appropriate] listed on the attached Form PTO-1449 were previously cited by or submitted to the Patent and Trademark Office in prior Application No. _____, filed _____.

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

There are no listed references which are not in the English language.

Date: 3-8-04



Peter M. Ullman

Registration No. 43,963

WOODCOCK WASHBURN LLP
One Liberty Place - 46th Floor
Philadelphia, PA 19103
Telephone: (215) 568-3100
Facsimile: (215) 568-3439



Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. MSFT-2820/306478.1	Application No. 10/723,823
	Applicant Ernest S. Cohen	
	Filing Date November 26, 2003	Group Not Yet Assigned
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
1	Bugnion, E. et al., "Disco:Running Commodity Operating Systems on Scalable Multiprocessors", <i>Proceedings of the 16th Symposium on Operating Systems Principles (SOSP)</i> , October 1997 , 1-14	
2	Coffing, C.L., "An x86 Protected Mode Virtual Machine Monitor for the MIT Exokernel", <i>Submitted to the Department of Electrical Engineering and Computer Science at the Massachusetts Institute of Technology</i> , May 1999 , 109 pages	
3	Goldberg, R.P., "Survey of Virtual Machine Research", <i>Computer</i> , June 1974 , 34-45	
4	Popek, G.J. et al., "Formal Requirements for Virtualizable Third Generation Architectures", <i>Communications of the ACM</i> , July 1974 , 17(7), 412-421	
5	Smith, J.E., "An Overview of Virtual Machine Architectures", October 26, 2001 , 1-20	
6	Waldspurger, C.A., "Memory Resource Management in VMware ESX Server", <i>Proceedings of the 5th Symposium on Operating Systems Design and Implementation</i> , December 9-11, 2002 , 15 pages	
EXAMINER		DATE CONSIDERED



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U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
	7	5,892,900	04/06/99	Ginter, et al.	395	186
	8	5,917,912	06/29/99	Ginter, et al.	380	24
	9	5,915,019	06/22/99	Ginter, et al.	380	4
	10	5,428,757	06/27/95	Sutton	395	400
	11	5,455,922	10/03/95	Eberhard, et al.	395	481
	12	5,721,858	02/24/98	White, et al.	395	413
	13	5,437,017	06/25/95	Moore, et al.	395	400
	14	5,317,705	05/31/94	Gannon, et al.	395	400
	15	4,779,188	10/18/88	Gum, et al.	364	200
	16	2003/0200412 A1	10/23/03	Peinado, et al.	711	202

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO

EXAMINER	DATE CONSIDERED
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Examiner Initial		Document No.	Date	Name	Class	Subclass
	17	2003/0200402 A1	10/23/03	Willman, et al.	711	154
	18	2003/0200405 A1	10/23/03	Willman, et al.	711	163
	19	2004/0003262 A1	01/01/04	England, et al.	713	189
	20	2002/0156989 A1	10/24/02	Gaertner, et al.	711	207

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO

EXAMINER	DATE CONSIDERED
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